Green Building in the Gulf, Session 3: Enterprise Green Communities Certification
Green Building in the Gulf

March 9: ENERGY STAR Certification
June 8: Benchmarking
October 12: Enterprise Green Communities Certification
December 8: Green Resources
“We believe, because it is true, that people are affected by their environment, by space and scale, by color and texture, by nature and beauty, that they can be uplifted, made to feel important.”

Jim Rouse | Founder
Enterprise Green Communities is transforming the way America thinks about, designs, builds, and rehabilitates affordable housing.

Green building integrates materials and methods that promote environmental quality, economic vitality, and social benefits through design, construction and operations of the built environment.

Enterprise Green Communities aligns affordable housing investment strategies with environmentally responsive building practices.
A holistic approach to building a green community

- Integrative Design
- Location + Neighborhood Fabric
- Site Improvements
- Water Conservation
- Energy Efficiency
- Materials
- Healthy Living Environment
- Operations, Maintenance + Resident Engagement
Programmatic Requirements

meet mandatory criteria

35 optional points
NEW CONSTRUCTION

30 optional points
SUBSTANTIAL & MODERATE REHABILITATIONS
2015 Criteria: What’s New?

• The 2015 Criteria requires that seekers of EGC certification assess, and address, community health characteristics and relevant resilience measures during the integrative design process.

• For projects pursuing Certification, energy and water data will not simply be collected by Enterprise, but will also be managed by each project owner in a manner that influences project operations.

• Projects pursuing Certification must explore best practices of TOD, offering means to connect to community amenities in more meaningful ways than ever before.
Enterprisecommunity.org/Green → Criteria & Certification

Learn About the Criteria

Get Started!

FOLLOW THE NATIONAL 2015 CRITERIA LAUNCH

Enterprise Green Communities is improving the health and well-being of low-income people by transforming the quality of affordable housing in America. By aligning affordable housing investment strategies with environmentally responsive building practices, Enterprise is leading the national effort to ensure that people living in affordable housing are healthier, spend less money on utilities, and have more opportunities through their connections to transportation, quality food and healthcare systems.
www.enterprisecommunity.org/Green

Criteria & Certification

- 2015 Criteria Manual
- 2015 Criteria Checklist
- New York City Overlay of the Enterprise Green Communities Criteria
- 2015 Criteria FAQ
- 2015 Criteria Addenda
- 2015 Criteria Ambassador Brief
Certification Eligibility and Requirements

Certification Process At a Glance

Supplemental Document Instructions

- Image release form
- Criterion 1.2a Resident Health and Well-being Design for Health template
- Criterion 1.2b Resident Health and Well-Being: Health Action Plan
- Criterion 4.2 Advanced Water Conservation template
- Criterion 5.1 Building Performance Standard - Energy Performance Report Form
- Criteria 5.1a & 5.1c Building Performance Standard: Sampling Guidance
- Criterion 8.5/8.6 Utility Accounts Instruction
1. Integrative Design

1.1a Goal Setting
1.1b Criteria Documentation
1.1c Designing for Project Performance

1.2a Resident Health and Wellbeing: Design for Health
1.2b Resident Health and Wellbeing: Health Action Plan

1.3a Resilient Communities: Design for Resilience
1.3b Resilient Communities: Multi-Hazard Risk / Vulnerability Assessment
1.1a Goal Setting

Develop an integrative design process that works best for your project team and intentions.

At minimum, document:

1. A statement of the overall green development goals of the project and the expected intended outcomes from addressing those goals.

2. A summary of the integrative process that was used to select the green building strategies, systems and materials that will be incorporated into the project.

3. A description of how progress and success against these goals will be measured throughout the completion of design, construction and operation to ensure that the green features are included and correctly installed.
1.2a Resident Health and Well-Being: Design for Health
Identify potential resident health factors and design your project to address resident health and well-being by using the matrix provided on pages 22 and 23.

1.3a Resilient Communities: Design for Resilience *(New Construction and Substantial Rehab only)*
Given your project building type, location and expected resident population, identify a project characteristic that would most likely impact your project’s ability to withstand an unexpected weather event or loss of power. Select at least one criterion from the given list that would help mitigate that impact, and incorporate this within your project plans and design. Include a short narrative providing your rationale for selecting this criterion above the others.
2. Location + Neighborhood Fabric

2.1 Sensitive Site Protection

2.3 Compact Development

2.5 Proximity to Services

2.8 Access to Transportation

2.10 Passive Solar Heating/Cooling

2.12 Access to Fresh, Local Foods

2.14 Local Economic Development and Community Wealth Creation
New Construction: All new construction projects must earn optional points under Criterion 2.8 Access to Public Transportation, OR earn 8 optional points through selecting one or more of the following:

- 2.7 Preservation of and Access to Open Space
- 2.9 Improving Connectivity to the Community
- 2.12 Access to Fresh, Local Foods
- 2.13 LEED for Neighborhood Development Certification
- 2.14 Local Economic Development and Community Wealth Creation
3. Site Improvements

3.1 Environmental Remediation

3.2 Erosion and Sedimentation Control

3.3 Low-Impact Development

3.4 Landscaping

3.5a/b Efficient Irrigation and Water Reuse

3.6 Surface Stormwater Management

3.7 Reducing Heat-Island Effect: Paving
4. Water Conservation

4.1 Water-Conserving Fixtures

4.2 Advanced Water Conservation

4.3 Leaks & Water Metering

4.4 Efficient Plumbing Layout and Design

4.5 Water Reuse

4.6 Access to Potable Water during Emergencies
5. Energy Efficiency

5.1 Building Performance Standard
a. New Construction, single family and low-rise MF

b. New Construction, mid-rise and high-rise MF

c. Sub and Mod Rehab, single family and low-rise MF

d. Sub and Mod Rehab, mid-rise and high-rise MF

**partner with HERS Rater / energy professional prior to, and throughout, construction

**sampling protocol available for large projects
ENERGY STAR v3.0 (Rev 8)

- House size
- Initial requirements
- Rater Design Review Checklist & Rater Field Checklist
- HVAC Design Report
- HVAC Commissioning Checklist
- Water Management System Builder Requirements
<table>
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<th>Name</th>
<th>Partner Since</th>
<th>Homes Certified Jul 2015 - Jun 2016</th>
<th>Homes Certified State Total</th>
<th>Homes Certified Grand Total</th>
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ENERGY STAR: Next Steps

• Home Energy Rater

• Builder Partnership & Training

• Credentialed HVAC Contractor
  • [www.ACCA.org/qa/directory/new-homes](http://www.ACCA.org/qa/directory/new-homes)

• Framing plans, HVAC design, Ventilation design
6. Materials

6.1 Low / No VOC Paints, Coatings, and Primers
6.2 Low / No VOC Adhesives and Sealants
6.6 Composite Woods (Low / No Formaldehyde)

6.7a Environmentally Preferable Flooring
6.7b Environmentally Preferable Flooring Throughout Building

6.10 Asthmagen-free Materials

6.11 Reduced Heat-Island Effect: Roofing

6.12 Construction Waste Management
7. Healthy Living Environments

7.1 Ventilation

7.10 Integrated Pest Management

7.11 Beyond ADA: Universal Design

7.12 Active Design: Promoting Physical Activity within the Building

7.13 Active Design: Staircases and Building Circulation

7.16 Smoke-Free Building
8. Operations, Maintenance and Resident Engagement

8.1 Building Maintenance Manual (all MF projects)

8.2 Emergency Maintenance Manual

8.3 Resident Manual

8.4 Resident and Property Manager Orientation

8.5 / 8.6 Project Data Collection and Monitoring System
Integrative Design

A holistic approach to building a green community

Operations, Maintenance + Resident Engagement
Healthy Living Environment
Materials
Energy Efficiency
Water Conservation
Site Improvements
Location + Neighborhood Fabric
Sustainable AND Affordable
www.enterprisecommunity.org/Green

Tools & Services

Green Communities Criteria
Our clear, cost-effective framework for all affordable housing. >>

Charrette Tools
Customizable resources to aid your integrative design plans. >>

Resident Engagement
Mobilize residents to help maximize energy-saving efforts. >>

Operations & Maintenance
Green efforts continue after construction ends! >>

Research & Evaluation
Discover new research and practical insights in green building and affordable housing. >>

Online Event Archive
Download one of over 30 webinars we’ve hosted with leaders and experts in green affordable housing. >>

Construction Specs Templates
Editable specs in MasterSpec format that correspond to the 2015 Criteria. >>

Tools for Resilience
Tools to help housing organizations prepare for and respond to disasters. >>

Retrofit Toolkit
Upgrade existing multi-family buildings with energy-efficient features and systems. >>

Technical Assistance Database
Experts ready to address your affordable housing technical needs. >>
Resident Engagement Manual

Manuals provide the backbone of a property’s resident engagement program. This suite of materials align with the key principles of the 2015 Criteria and allows owners to translate information about the design and construction of their building into a format that engages residents on how to best maintain their dwelling unit and the building at large.

- Green Resident Engagement Manual Template
- Guidelines on how to tailor the manual to meet your needs
- Sample Orientation Agenda
- Supplement Signage, Icons, and Images
Manual & Maintenance Schedules

Manuals provide the backbone of a property’s maintenance program, reducing re-work, streamlining operations, and providing valuable assistance with staff on-boarding and training. These workbooks are aligned with the key principles of the 2015 Criteria and are designed to ensure that design and construction intentions are codified into operations and maintenance guidelines.

Customizable Templates, developed March 2016:
- O&M Manual Template
- Appendix of O&M Checklists

Customizable Templates, developed November 2011:
- O&M Manual
- O&M Manual Tip Sheet
- O&M Task List Schedule
- O&M Task List Schedule Tip Sheet

Ready to Respond Tools for Resilience

**Take Our Short Survey: Are You Ready to Respond?**

Complete this short, anonymous survey to evaluate your organization's preparedness efforts.

**Disaster Staffing Toolkit**

The Ready to Respond: Disaster Staffing Toolkit helps you develop comprehensive disaster plans to protect buildings, residents, and business operations.

**Strategies for Multifamily Building Resilience**

19 retrofit strategies to make buildings more resilient against extreme weather events.

**Speaker Series Video Library**

Over 100 training videos on disaster preparedness, building infrastructure, resident engagement, and more.
Application
Certification

**Prebuild**
*(prior to construction)*
- Project overview
- Intended methods
- Upload: site plan, context map, energy modeling form, Category 8 outlines, other supplemental documents as necessary

**Post Build**
*(within 60 days of construction completion)*
- Update information
- Upload: project photos & release, Category 8 documents, utility access, other supplemental documents as necessary

_all submittals reviewed within 30 days_
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Certification Portal
• Create a New Project

• Select the Construction Type AND Location
Certification

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*(prior to construction)*
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Q + A
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